

Title (en)
METHOD FOR PROVIDING PORE SEALING LAYER ON POROUS LOW DIELECTRIC CONSTANT FILMS

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER PORENVERSIEGELUNGSSCHICHT AUF PORÖSEN FILMEN MIT GERINGER DIELEKTRIZITÄTSKONSTANTE

Title (fr)
PROCÉDÉ POUR FOURNIR UNE COUCHE DE SCELLEMENT DE PORES SUR DES FILMS POREUX À FAIBLE CONSTANCE DIÉLECTRIQUE

Publication
EP 2993687 A1 20160309 (EN)

Application
EP 15181146 A 20150814

Priority
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• US 201514820982 A 20150807

Abstract (en)
Described herein is a method and composition comprising same for sealing the pores of a porous low dielectric constant ("low k") layer by providing an additional thin dielectric film, referred to herein as a pore sealing layer, on at least a surface of the porous, low k layer to prevent further loss of dielectric constant of the underlying layer. In one aspect, the method comprises: contacting a porous low dielectric constant film with at least one organosilicon compound to provide an absorbed organosilicon compound and treating the absorbed organosilicon compound with ultraviolet light, plasma, or both, and repeating until a desired thickness of the pore sealing layer is formed.

IPC 8 full level
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CPC (source: CN EP KR US)
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